



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

#### Representatives Present During the Inspection:

Company	Dennis Oakley	Environmental Engineer
OGM	Priscilla Burton	Environmental Scientist III
OGM	Pete Hess	Environmental Scientist III
OGM	Jim Smith	Environmental Scientist III

## Inspection Report

Permit Number:	<b>C0150017</b>
Inspection Type:	<b>COMPLETE</b>
Inspection Date:	Thursday, January 05, 2006
Start Date/Time:	1/5/2006 8:45:00 AM
End Date/Time:	1/5/2006 11:50:00 AM
Last Inspection:	Wednesday, December 14, 2005

Inspector: Pete Hess, Environmental Scientist III

Weather: Sunny, clear, cold, 30's F.

InspectionID Report Number: 833

Accepted by: whedberg  
1/13/2006

Permittee: **PACIFICORP**

Operator: **ENERGY WEST MINING CO**

Site: **DES BEE DOVE MINE**

Address: **PO BOX 310, HUNTINGTON UT 84528**

County: **EMERY**

Permit Type: **PERMANENT COAL PROGRAM**

Permit Status: **RECLAIMED**

#### Current Acreages

153.90	<b>Total Permitted</b>
36.22	<b>Total Disturbed</b>
	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

#### Mineral Ownership

- ☒ Federal  
☐ State  
☐ County  
☒ Fee  
☐ Other

#### Types of Operations

- ☒ Underground  
☐ Surface  
☐ Loadout  
☐ Processing  
☐ Reprocessing

#### Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

The Permittee is in the process of entering third quarter 2005 water monitoring data into the Division pipeline as of today's inspection. The Division notified the Permittee on December 23, 2005 that the EW Mines were still missing quite a bit of water monitoring information. Due to end of year vacations at most companies, no one was available to see that the required information had been submitted prior to 12/31. The Division feels that additional time is warranted such that this Permittee can meet this R645 requirement.

Ms. Priscilla Burton attended the inspection of the reclamation activities being conducted at the Des-Bee-Dove sediment pond.

Mr. Jim Smith was in attendance for the entire inspection, in order to pass necessary information to the new inspector.

The Des-Bee-Dove Mine was developed long before August 3, 1977; it is assumed that the sediment pond was constructed post-SMCRA to bring this site into compliance.

Inspector's Signature: \_\_\_\_\_

Date Thursday, January 05, 2006

Pete Hess, Environmental Scientist III

Inspector ID Number: 46

**Note:** This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining.

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## Inspection Continuation Sheet

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### **REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **1. Permits, Change, Transfer, Renewal, Sale**

Vol. XVI of the MRP provides information on Phase III reclamation (sediment pond). Map 700-1 illustrates the proposed reclamation topography for the pond area.

### **3. Topsoil**

No further material will be removed from the subsoil stockpile. The existing soil will be graded to resemble the surroundings, and then covered with the substitute topsoil that is stockpiled immediately adjacent.

The Permittee indicated that the knob adjacent to the dam embankment will be used in its entirety (approximately 1,300 cu yds) rather than removing only 600 cu yds for substitute topsoil purposes. Movement of this additional fill will be used to blend the western slope into the disturbed area, while maintaining separate drainage ways between the main channel and the highway diversion.

#### **4.a Hydrologic Balance: Diversions**

The diversion ditch between the sediment pond access road and the subsoil pile was clear and capable of functioning as designed. Snow remains where direct sunlight does not intercept the east side of the ditch. Mr. Oakley pointed out the sediment demarcation line in the mine site main channel. The site has not seen a major event since the site reclamation was completed in June of 2003. Hence, minor events are flushing small amounts of sediment down the main channel, which helps lock the rip-rapped channel bottom in place.

#### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

The reclamation of the Des-Bee-Dove mine site sediment pond was initiated on November 28, 2005. Two large dozers from Nielson Construction were working the pond bottom this day pushing material up the NE slopes to achieve 2H:1V slopes having a 1.3 static safety factor. Due to the close proximity of one of the undisturbed drainages which will be routed through this reclaimed area, it may not be possible to achieve a 2H:1V slope at one of the cut banks which were created to build this pond. Hence, some Mancos shale may have to remain exposed, such that a stable fill is created. The undisturbed areas of the basin in which the pond exists are surrounded by vast areas of exposed Mancos shale. Hence, the remaining exposed cut bank should help the reclamation of this disturbed area blend with the undisturbed.

#### **4.d Hydrologic Balance: Water Monitoring**

The only water monitoring site for the Des-Bee-Dove Mine is the UPDES outfall from the sediment pond, which is, as noted elsewhere, undergoing reclamation. There was no discharge from the pond in October. There was no water in the pond during today's inspection. There was no flow coming into the reclaimed channel at the mine site this day.

## **8. Noncoal Waste**

A six-inch aluminum pipeline was exposed by the reclamation activities at the sediment pond. Mr. Oakley indicated that the line will be removed from the site for disposal.

## **10. Slides and Other Damage**

The reclaimed area within the mine site disturbed area perimeter did not show any signs of fill area failure. No unstable conditions were noted.

## **12. Backfilling And Grading**

The two dozers operating within the sediment pond began recovery of material from the pond embankment during today's inspection. Although a lot of material still remains to be moved, the Permittee anticipates that this reclamation work will be completed by January 31, 2006. The east slope has been backfilled to its final grade. Topsoil will be replaced and then a small amount of material from above the cut will be brought down to blend with the fill. Small channels in the fill will be armored to protect the soils from flows that will gravitate toward them. The smaller channels will be protected where necessary. The main channel is established on bedrock in the middle of the pond. There are three areas shown on Map 700-1 that will be riprapped as per the typical design found in Figure 7-3. Bedding will be employed where the undisturbed main drainage channel meets the reclaimed area. Design for the bedding is provided on page 7-15 of the hydrology section of MRP Vol. XVI.

## **13. Revegetation**

Table 3-1 of MRP Vol. XVI contains the approved reclamation seed mix for the sediment pond area. Mr. Oakley developed this mix through consultation with Dr. Patrick Collins, of Mt. Nebo Scientific, and Ms. Jerriann Ernstsens of DOGM / SLO. Two species in the mix were noted growing vigorously on the disturbed slope above the pond: mat saltbush and shadscale.

Over the past couple of weeks, wet pond soils were mixed with the subsoil and pushed up against the slope over the past weeks. As a result, good compaction has been achieved. The compacted soils will be covered with at least 6 - 8 inches of substitute topsoil and gouged. The Permittee is aware of the negative effect of compaction on vegetation establishment.

## **16.a Roads: Construction, Maintenance, Surfacing**

The access road to the sediment pond will be reclaimed during the retreat process from the pond area.